

Translation

PATENT COOPERATION TREATY

PCT/EP2003/005344



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

04 FEB 2005

Applicant's or agent's file reference 401th/229106/PCT	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP2003/005344	International filing date (day/month/year) 22 May 2003 (22.05.2003)	Priority date (day/month/year) 17 August 2002 (17.08.2002)
International Patent Classification (IPC) or national classification and IPC B23C 5/10		
Applicant HARTMETALL-WERKZEUG FABRIK PAUL HORN GMBH		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 8 sheets.

3. This report contains indications relating to the following items:

**CORRECTED
VERSION**

I ☒ Basis of the report

II ☐ Priority

III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

IV ☐ Lack of unity of invention

V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

VI ☐ Certain documents cited

VII ☐ Certain defects in the international application

VIII ☐ Certain observations on the international application

Date of submission of the demand 08 August 2003 (08.08.2003)	Date of completion of this report 28 December 2004 (28.12.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/005344

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages 2, 3, 5, 7-11, as originally filed
 pages _____, filed with the demand
 pages 1, 4, 4a, 4b, 6, filed with the letter of 18 August 2004 (18.08.2004)
- ☒ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement under Article 19
 pages _____, filed with the demand
 pages 1-7, filed with the letter of 18 August 2004 (18.08.2004)
- ☒ the drawings:
 pages 1/2-2/2, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/EP 03/05344

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-7	YES
	Claims		NO
Inventive step (IS)	Claims	1-7	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-7	YES
	Claims		NO

2. Citations and explanations

The closest prior art (corresponding to the preamble of claim 1) is known from EP-A-0776719.

Problem and solution:

The problem addressed by the present application is that of improving the known generic tool so that the cutting element can be changed more quickly and with greater precision, and also so that the machining forces generated during the machining operation are reliably directed into the mounting so that greater machining precision can be achieved.

The combination of features proposed in claim 1, in particular the inclined surface (50) and the screw thread (54) in the recess that co-operates with the inclined surface on the tool, ensures a simple and reliable zero-backlash connection between the tool and the mounting, thereby solving the problem of interest. The solution is novel and cannot be derived in an obvious way from the cited documents.

The subject matter of claim 1 is industrially applicable.

The subject matter of claims 2 to 7 is novel, inventive and industrially applicable by virtue of the dependence of said claims on claim 1.

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING
OF A CHANGE(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

To:

BARTELS UND PARTNER

Lange Strasse 51
70174 Stuttgart
Germany

Termin:

Eing.: 11. AUG. 2003

Patwo.

Date of mailing (day/month/year) 30 July 2003 (30.07.03)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 401th/229106/PCT	
International application No. PCT/EP03/05344	International filing date (day/month/year) 22 May 2003 (22.05.03)

1. The following indications appeared on record concerning:



the applicant



the inventor



the agent



the common representative

Name and Address

OETTL, Matthias
Entenbachstr. 9/4
72585 Riederich
Germany

State of Nationality

DE

State of Residence

DE

Telephone No.

Facsimile No.

Teleprinter No.

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:



the person



the name



the address



the nationality



the residence

Name and Address

SCHÄFER, Hans
Gröbenstr. 2
72810 Gomaringen
Germany

State of Nationality

DE

State of Residence

DE

Telephone No.

Facsimile No.

Teleprinter No.

3. Further observations, if necessary:

4. A copy of this notification has been sent to:



the receiving Office



the International Searching Authority



the International Preliminary Examining Authority



the designated Offices concerned



the elected Offices concerned



other:

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 338.89.70

Authorized officer

Thomas ROCHAIX (Fax 338 8970)

Telephone No. (41-22) 338 8398

DO/US WORKSHEET

U.S. Appl. No. 10/523817International Appl. No. EP03/0534Application filed by: ☐ 20 months ☒ 30 months

INTERNATIONAL APPLICATION PAPERS IN THE APPLICATION FILE:

- | | |
|--|---|
| <input checked="" type="checkbox"/> International application (RECORD COPY) | <input type="checkbox"/> Request form PCT/RO/101 |
| <input type="checkbox"/> Article 19 amendments | <input type="checkbox"/> PCT/IB/302 |
| <input type="checkbox"/> PCT/IB/331 | <input checked="" type="checkbox"/> PCT/ISA/210-Search Report |
| <input checked="" type="checkbox"/> PCT/IPEA/409 IPER (PCT/IPEA/416 on front) | <input type="checkbox"/> Search Report references |
| <input type="checkbox"/> Annexes to 409 | <input checked="" type="checkbox"/> Other <u>306</u> |
| <input checked="" type="checkbox"/> Priority document(s) No. <u>1</u> | |
| <input type="checkbox"/> INTERNATIONAL APPLICATION ON DOUBLE SIDED PAPER (COPIES MADE) | |

RECEIPTS FROM THE APPLICANT: (other than checked above)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Basic National Fee (paid or authorized to charge) | <input checked="" type="checkbox"/> Preliminary amendment(s) filed |
| Translation of international application as filed: | |
| <input checked="" type="checkbox"/> Description | <input checked="" type="checkbox"/> Information Disclosure Statement |
| <input checked="" type="checkbox"/> Claims | <input checked="" type="checkbox"/> Assignment document |
| <input checked="" type="checkbox"/> Words in the drawing figure(s) | <input type="checkbox"/> Power of attorney/Change of address |
| <input type="checkbox"/> Article 19 amendments | <input type="checkbox"/> Substitute specification |
| <input type="checkbox"/> Annexes to 409 | <input type="checkbox"/> Verified small status claim |
| <input checked="" type="checkbox"/> Oath / Declaration | <input type="checkbox"/> Other |
| <input type="checkbox"/> DNA diskette | |

Notes: No data Sheet Filed**BEST AVAILABLE COPY**

35 U.S.C. 371 - Receipt of Request (PTO-1390)

04 FEB 2005

Date acceptable oath / declaration received

14 Sep 05

Date complete 35 U.S.C 371 requirements met

102(e) Date

Date of completion of DO/EO 906 - Notification of Missing 102(e) Requirements

Date of completion of DO/EO 907 - Notification of Acceptance for 102(e) date

Date of completion of DO/EO 911 - Application accepted under 35 U.S.C. 1.11

Date of completion of DO/EO 905 - Notification of Missing Requirements

26 Aug 05

Date of completion of DO/EO 916 - Notification of Defective Response

Date of completion of DO/EO 903 - Notification of Acceptance

26 Jan 06

Date of completion of DO/EO 909 - Notification of Abandonment

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Publication No.

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